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DERWENT-ACC-NO: 1992-146957

DERWENT-WEEK: 199218

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TITLE: Bath for electroplating aluminium@ alloys - comprises aluminium halide, alkyl:pyridinium or alkyl:imidazolium halide and halide of lithium, vanadium, niobium, tantalum, molybdenum

PATENT-ASSIGNEE: NISSHIN STEEL CO LTD[NISI]

PRIORITY-DATA: 1990JP-0201745 (July 30, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC JP 04088188 A	March 23, 1992	N/A	011 N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP04088188A	N/A	1990JP-0201745	July 30, 1990

INT-CL_(IPC): C25D003/66; C25D005/26

ABSTRACTED-PUB-NO: JP04088188A

BASIC-ABSTRACT: Bath comprises (A) 33-67 mol.% of an Al halide; (B) 0.01-67 mol.% of a Li halide, a V halide and/or an alkali metal fluorovanadate; a Nb halide and/or an alkali metal fluoroniobate; a Ta halide and/or an alkali metal fluorotantalate; a Mo halide; and a W halide; and (C) 33-67 mol.% of an alkylpyridinium halide or an alkylimidazolium halide (provided that the alkyl gp. in both cpds. contains 1-12C atoms).

Electroplating an Al-Mg alloy using the bath at 25-180 deg.C and applying a DC or pulsed current at a density of 0.01-100 A/dm² is also claimed.

The alkylpyridinium halide is a mono-, a di-, a tri-alkylpyridinium halide, or their mixt.. The alkylimidazolium halide is a 1-alkyl-, 1,3-dialkyl-, trialkyl-imidazolium halide or their mixt.. Aromatic organic solvent or a nitrogen-contg. aromatic cpd. is pref. added to plating bath.

USE/ADVANTAGE - Enables electroplating of an Al alloy at an ordinary temp. or relatively low temp.

CHOSEN-DRAWING: Dwg. 0/0

TITLE-TERMS:

BATH ELECTROPLATING ALUMINIUM@ ALLOY COMPRISE ALUMINIUM HALIDE ALKYL PYRIDINIUM
ALKYL IMIDAZOLIUM HALIDE HALIDE LITHIUM VANADIUM NIOBIUM TANTALUM MOLYBDENUM

ADDL-INDEXING-TERMS:

MOLYBDENUM HALIDE

DERWENT-CLASS: E13 M11